

Bibliography Section

- ACREE, W. E., TUCKER, S. A., ZVAIGZNE, A. I., YANG, M. Y., PILCHER, G., DASIEVA, M. D. M. C. R. (Univ. N Texas, Dept. Chem., Cairo Egypt) Enthalpies of combustion of 2, 4, 6-trimethylbenzotrile, 2,4,6-dimethylbenzotrile, 2, 4, 6-trimethylbenzotrile, and 2, 4, 6-trimethoxybenzotrile N-oxide. The dissociation enthalpies of the (N-O) bonds *J. Chem. Thermodyn.* **23** (1991) 31
- ALAMI, M., BROCHU, R., SOUBEYROUX, J. L., GRAVEREAU, P., LEFLEM, G., HAGENMULLER, P. (Univ. Mohammed 5, Fac. Sci., Dept. Chim., Ave IBN Batouta, Rabat Morocco) Structure and thermal expansion of $\text{LiGe}_2(\text{PO}_4)_3$ *J. Solid State Chem.* **90** (1991) 185
- ASANO, M., KOU, T. (Kyoto Univ., Inst. Atom Energy, Uji, Kyoto 611 Japan) Vaporization and thermochemical properties in the $\text{BaO-B}_2\text{O}_3$ system *High Temp. Sci.* **29** (1990) 171
- ATAKE, T. (Tokyo Inst. Technol., Grad. Sch. Nagatsuta, Engn. Mat. Res. Lab, 4259 Nagatsuta Cho, Midori Ku, Yokohama, Kanagawa 227 Japan) Heat capacities of high-Tc oxide superconductors *Thermochim. Acta* **174** (1991) 281
- BADDORF, A. P., PLUMMER, E. W. (Oak Ridge Natl. Lab, Div. Solid State, Oak Ridge TN 37831 USA) Surface anharmonicity - Temperature dependence of phonon energies on Cu(110) *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 541
- BELOT, V., CORRIU, R., LECLERCQ, D., MUTIN, P. H., VIOUX, A. (Univ. Montpellier 2, Cnrs, Unite Mixte Rhone Poulenc, Case 007, PL E Bataillon, F-34095 Montpellier 5 France) Thermal reactivity of hydrogenosilsesquioxane gels *Chem. Mater.* **3** (1991) 127
- BENT, B. E., NUZZO, R. G., ZEGARSKI, B. R., DUBOIS, L. H. (Columbia Univ., Dept. Chem., New York NY 10027 USA) Thermal decomposition of alkyl halides on aluminium. 1. Carbon halogen bond cleavage and surface β -hydride elimination reactions *J. Amer. Chem. Soc.* **113** (1991) 1137
- BENT, B. E., NUZZO, R. G., ZEGARSKI, B. R., DUBOIS, L. M. (Columbia Univ., Dept. Chem., New York NY 10027 USA) Thermal decomposition of alkyl halides on aluminium. 2. The formation and thermal decomposition of surface metallacycles derived from the dissociative chemisorption of dihaloalkanes *J. Amer. Chem. Soc.* **113** (1991) 1143
- BESPAMYATNOV, O. K., MIRKIN, V. A., OSPANOV, K. K., AITKOYHIN, N. A., KESAEV, I. K. (SM Kirov State Univ., Chair Phys. Chem. Electrochem., Alma Ata, Kazakhstan USSR) Corrosion of thermally loaded copper surface during its contact with water-ethyleneglycol mixture *Izv. Vyssh. Uch. Zav. Khim.* **33** (1990) 77
- BIELAWSKI, M., FURMANEK, A. (Wroclaw Tech. Univ., Inst. Electron Technol., ul. Grabiszynska 97, PPL-53439 Wroclaw Poland) Thermal cycling of cast iron surface by electron beam fusion treatment *Vacuum* **41** (1990) 2181
- BOUTEVIN, B., YOUSSEF, B. (Ecole Natl. Super. Chim., Cnrs, Ura D11930, 8 Rue Ecole Normale, F-34053 Montpellier France) Synthesis of fluorinated polysiloxanes. 8. Properties at low and high

- temperatures of polysiloxanes with fluorinated grafts *Macromolecules* **24** (1991) 629
- BURMISTROV, V. A., SMIRNOVA, G. N., LOBANOVA, S. A., KOIFMAN, O. I. (Ivanovo Chem. Technol. Inst., Chair Film Mat. Plast. Mat. Chem. Technol., Ivanovo USSR) Thermal analysis of certain mesogene disubstituted azobenzenes *Izv. Vyssh. Uch. Zav. Khim.* **30** (1990) 119
- CABRERA, I., DITTRICH, A., RINGSDORF, H. (Univ. Mainz, Inst. Organ. Chem., J. J. Becher Weg 18-20, D-6500 Mainz Fed. Rep. Ger.) Thermally irreversible photochromic liquid crystal polymers *Angew. Chem.* **30** (1991) 76
- CARLSSON, D. J., CHMELA, S., WILES, D. M. (Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario Canada K1A 0R9) The oxidative degradation of ethylene vinyl alcohol copolymers *Polym. Degrad. Stabil.* **31** (1991) 255
- CHAO, J. P., DAI, M. (Henan Inst. Chem., Solut. Chem. Res. Lab., Zhengzhou 450003 Peoples R China) Studies of thermodynamic properties of binary mixtures containing an alcohol. 16. Excess molar enthalpies of each of (one of the 4 butanols-methyl ethyl ketone or methyl isobutyl ketone) at the temperature 298.15 K *J. Chem. Thermodyn.* **23** (1991) 117
- CHAO, J. P., WNAG, Y. X., DAI, M. (Henan Inst. Chem., Solut. Chem. Res. Lab., Zhengzhou 450003 Peoples R China) Studies of thermodynamic properties of binary mixtures containing an alcohol. 17. Excess molar enthalpies of each of (one of the 4 butanols -N, N-dimethylacetamide or N, N-dimethylformamide or dimethyl sulfoxide) at the temperature 298.15 K *J. Chem. Thermodyn.* **23** (1991) 163
- CHESTERS, M. A., HORN, A. B., ILHARCO, L. M., RAUSLEY, I. A., SAKAKINI, B. H., VICKERMAN, J. C. (Univ. E Anglia, Sch. Chem. Sci., Norwich NR4 7TJ Norfolk England) Adsorption and thermal decomposition of but-1-ene and isobutene on the Ru(0001) single crystal surface, studied by RAIRS *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 677
- CHIOU, R. K., WELLELS, B. W., WOODSON, M., LIMAS, C. (Vet Affairs Med. Ctr., Urol. Sect., Minneapolis MN USA) Study of the clinical thermoluminescent dosimeter in the direct measurement of radiation absorbed dose for radioimmunotherapy *Appl. Radiat. Isot.* **42** (1991) 181
- CHOE, K. S., STEFANI, J. A., DETTLING, T. B., TIEN, J. K., WALLACE, J. P. (IBM Corp., Thomas J. Watson Res. Ctr., POB 218, Yorktown Hts., NY 10598 USA) Effects of growth conditions on thermal profiles during Czochralski silicon crystal growth *J. Cryst. Growth* **108** (1991) 262
- CHRISTENSEN, T. M., SORENSEN, N. R. (Univ. Colorado, Dept. Phys., Colorado Springs Co, 80933 USA) Thermal stability of benzotriazole on copper during atmospheric corrosion *Surface Interface Anal.* **17** (1991) 3
- CIMECIOGLU, A. L., FRUITWALA, H., WEISS, R. A. (Univ. Connecticut, Polym. Sci. Program, Storrs CT 06269 USA) Synthesis and properties of a thermotropic copolyester based on 4-hydroxyacetophenone azine *Macromol. Chem.* **191** (1990) 2329
- CIUTACU, S., BUDRUGEAC, P., NICULAE, I. (Inst. Cercetari Pentru Electrotechn. Bucharest, BD T Vladimiresku 45-47, R-79623 Bucharest Romania) Accelerated thermal aging of glass-reinforced epoxy resin under oxygen pressure *Polym. Degrad. Stabil.* **31** (1991) 365
- CZARNOTA, I. (Polish Acad. Sci., Inst. Phys. Chem., Kasprzaka 44-52, PL-01224 Warsaw Poland) Heat capacity of benzene at high pressures *J. Chem. Thermodyn.* **23** (1991) 25
- DALLOS, A., RATKOVICS, F. (Univ. Veszprem, Dept. Phys. Chem., POB 158, H-8201 Veszprem Hungary) Densities of pentan-2, 4-dione at temperatures from 287.15 K to 313.15 K *J. Chem. Thermodyn.* **23** (1991) 207

- DAVINI, P., DEMICHELE, G., BERTACCHI, S. (Univ. Pisa, Dept. Chem. Engn., Via Diotisalvi 2, I-56100 Pisa Italy) Reaction between calcium-based sorbents and sulphur dioxide. A thermogravimetric investigation *Fuel* **70** (1991) 201
- DEKANY, I., NAGY, L. G. (Jozsef Attila Tud. Egyet., Kolloidkem. Tanszék, Aradi Vértanúk tere 1, H-6720 Szeged Hungary) Thermodynamics of the immersional wetting and adsorption of displacement on solid surfaces *Magy. Kém. Foly.* **96** (1990) 409
- DOMATOV, S. A., VOLKOV, V. S., CHEGODAEV, P. P., BERDNIKOV, V. M., BURBO, Y. M., VASOLENKO, A. A., SHUVALOV, V. F. (Tekhnologiya Sci. Ind. Assoc., Obninsk USSR) On the nature of paramagnetic centres in thermoreactive poly-bis-maleimidamides *Vysokomol. Soedin. Ser. B SSSR* **32** (1990) 891
- DOUGLAS, P. L., YOUNG, B. E. (Univ. Waterloo, Dept. Chem. Engn., Waterloo Ontario Canada N2L 3G1) Modelling and simulation of an AFBC steam heating plant using aspen/SP *Fuel* **70** (1991) 145
- DREISINGER, D. B., COOPER, W. C. (Univ. British Columbia, Dept. Met. Mat. Engn., 309-6350 Stores Rd., Vancouver, BC Canada V6T 1W5) The diffusion coefficient of Hehehp in heptane measured by the modified stokes cell technique at temperatures between 25-degrees-C and 55-degrees-C *Solvent Extr. Ion. Exch.* **8** (1990) 893
- DUBOIS, L. H., ZEGARSKI, B. R., NUZZO, R. G. (ATT Bell Labs, Murray Hill NJ 07974 USA) Temperature induced reconstruction of model organic surfaces *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 1143
- DUFF, D. W., MACIEL, G. E. (Colorado State Univ., Dept. Math., Edinburgh EH14 4AS, Midlothian Scotland) Monitoring the thermal degradation of an isocyanurate-rich MDI-based resin by ¹³C CO/MAS NMR *Macromolecules* **24** (1991) 651
- ELLIOT, G. S., WU, K. J., KEVAN, S. D. (Univ. Oregon, Dept. Phys., Eugene OR 97403 USA) Kinetic and thermodynamic measurements of a 2-dimensional gas-liquid-phase transition CH₄ on Ag(110) *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 551
- ELSAYEDALI, H. E., JUHASZ, T., SMITH, G. O., BRON, W. E. (Univ. Rochester, Laser Energet. Lab, Rochester NY 14623 USA) Femtosecond thermorefectivity and thermotransmissivity of polycrystalline and single-crystalline gold films *Phys. Rev. B - Condensed Matter* **43** (1991) 4488
- ELSONBATI, A. Y. (Univ. Mansoura, Fac. Sci., Dept. Chem., Damietta Egypt) Polymer complexes. 17. Thermal stability of poly(5-vinyl salicylidene) -2-aminophenol homopolymer and polymer complexes of 5-vinyl saliylidene-2-aminophenol with transition metal acetates *Transit. Metal Chem.* **16** (1991) 45
- FELNER, I. (Hebrew Univ. Jerusalem, Racah Inst. Phys., Jerusalem Israel) The effect of chemical substitution on superconductivity in the UBa₂Cu₃O₇ *Thermochim. Acta* **174** (1991) 41
- FENG, H., WANG, Y. R., SHI, J., BENSON, G. C., LU, B. C. Y. (Nanjing Inst. Chem. Technol., Dept. Chem. Engn., Nanjing 210009 Peoples R China) Excess enthalpies of (methyl formate or nitroethane-An normal-alkane) and of (nitromethane-butan-1-ol or hexan-1-ol or ethan-1, 2-diol) *J. Chem. Thermodyn.* **23** (1991) 169
- FRAAIJE, J. G. E. M., LYKLEMA, J. (Akzo Corp. Res. Labs, Dept. Appl. Math., POB 9300, 6800 SB Arnhem Netherlands) Thermodynamics of ion binding by proteins - Phenomenological linkage relations for binding of electrolyte and interpretation by double layer theory *Biophys. Chem.* **39** (1991) 31
- FRISK, K. (Royal Inst. Technol., Div. Phys. Met., S-10044 Stockholm 70 Sweden) A thermodynamic evaluation of the Fe-Ni-N system *Z. Metallk.* **82** (1991) 59

- GALLAGHER, P. K. (Ohio State Univ., Dept. Chem., Columbus OH 43210 USA) Oxidation reduction and other gas solid reactions of high-Tc superconductors *Thermochim. Acta* **174** (1991) 85
- GALLAGHER, G., GOODWIN, J. G., HUANG, C. S., HOUALLA, M. (Univ. Pittsburgh, Dept. Chem. Petr. Engn., Pittsburgh PA 15261 USA) Thermal evolution of the support promoter effect in Rh/La₂O₃ *J. Catal.* **127** (1991) 719
- GAO, Q. Y., HEMMINGER, J. C. (Univ. Calif. Irvine, Inst. Surface Interface Sci., Irvine CA 92717 USA) Chemisorption and thermal decomposition of acetic acid on Pt(111) *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 667
- GELLMAN, S. H., DADO, G. P., LIANG, G. B., ADAMS, B. R. (Univ. Wisconsin, Dept. Chem., SM McElvain Lab Organ. Chem., MO1 Univ. Ave, Madison WI 53706 USA) Conformation - directing effects of a single intramolecular amide - amide - hydrogen bond - variable - temperature NMR and IR studies on a homologous diamide series *J. Amer. Chem. Soc.* **113** (1991) 1164
- GOMORY, F. (Slovak Acad. Sci., Inst. Elect. Engn., Electrophys. Res. Ctr., CS-84239 Bratislava Czechoslovakia) Low-frequency magnetic measurement on high - Tc superconducting materials *Thermochim. Acta* **174** (1991) 299
- GRADER, G. S., JOHNCON, D. W. (ATT Bell Labs, Murray Hill, NJ 07974 USA) Forming methods for high-Tc superconductors *Thermochim. Acta* **174** (1991) 239
- HAMMER, L., DOTXCH, B., BRANDENSTEIN, F., FRICKE, A., MULLER, K. (Univ. Erlangen Nurnberg, Lehrstuhl Festkorperphys., Staudtstr. 7, D-8520 Erlangen Fed. Rep. Ger.) Adsorption and thermal induced decomposition of isobutene on Ni(111) *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 687
- HEDWIG, G. R., (Massey Univ., Dept. Chem. Biochem., Palmerston North, New Zealand) The partial molar volumes and partial molar isentropic pressure coefficients of the amino acid L-asparagine in aqueous solution at the temperature 298.15 K *J. Chem. Thermodyn.* **23** (1991) 123
- HINSHAW, J. V. (Perkin Elmer Corp., Organ. Anal. Grp., Wilton CT 06897 USA) Optimizing column temperature LC GC - *Mag. Separation* **9** (1991) 94
- HIRANO, S. I., HAYASHI, T. (Nagoya Univ., Fac. Engn., Dept. Appl. Chem., Chikusa Ku, Furo Cho, Nagoya Aichi 464 Japan) Chemical processing of the high-temperature superconductor Ba₂YCu-307- δ through solution routes and thermal behaviour on pyrolysis *Thermochim. Acta* **174** (1991) 169
- HOCK, R., FUESS, H., VOGT, T., BONNET, M. (Inst. Max von Laue Paul Langevin, F-38042 Grenoble France) Low temperature magnetic structure of erbium iron garnet *Z. Phys. B* **82** (1991) 283
- HOLCER, J. C., SUMMERS, G., MAJXOUB, E. H., KELTON, K. F. A sensitive resistivity probe of high temperature phase transformations *Rev. Sci. Instr.* **62** (1991) 410
- HOMMERIL, F., MUTAFTSCHIEV, B. (Cnrs, Lab Maurice Letort, F-54600 Villers Les Nancy France) Thermodynamics of binary 2-dimensional phases on nearly perfect substrates *Croat. Chem. Acta* **63** (1990) 489
- INABA, T., FUJITA, M., OGURA, K. (Chiba Univ., Fac. Engn., Dept. Synthet. Chem., 1-33 Yayoichho, Chiba 260 Japan) Thermodynamically controlled 1,3-asymmetric induction in an acyclic system. Equilibration of α -amino nitriles derived from α -alkylbenzylamines and aldehydes *J. Org. Chem.* **56** (1991) 1274
- ISAEV, I. D., TVERDOKHLEBOV, S. V., TROYANOVA, V. G., DROZDOV, S. V., LEONTEV, V. M., PASHKOV, G. L., MIRONOV, V. E. (Acad. Sci. USSR, Inst. Chem. Chem. Engn., Krasnoyarsk USSR) Temperature effect on the formation of ammonia complexes of cobalt(II) in aqueous solutions *Zh. Neorg. Khim. SSSR* **35** (1990) 3149
- ITOH, K., YAITA, M., HASEGAWA, T., FUJII, S., MISONO, Y. (Waseda Univ.,

- Sch. Sci. Engn., Dept. Chem., Shinjuku Ku, Tokyo 169 Japan) Temperature-induced structural changes of 1,3-butadiene and acrylic acid on coldly evaporated silver films. Surface-enhanced raman scattering study *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 923
- IVANOV, M. (Acad. Sci. UKSSR, Inst. Problems Mat. Sci., Kiev 252180 Ukraine USSR) Thermodynamics of self-associated liquid alloys *Z. Metallk.* **82** (1991) 53
- JUNG, W. G., KLEPPA, O. J. (Univ. Chicago, James Franck Inst., Dept. Chem., 5640 S Ellis Ave, Chicago IL 60637 USA) Enthalpies of formation of Ru_3U , Rh_3U , Pd_3U by high-temperature reaction calorimetry *J. Chem. Thermodyn.* **23** (1991) 147
- KAMIMOTO, M. (Electrotech. Lab, Sataura, Ibaraki 305 Japan) Thermoanalytical observation on synthesis of oxide superconductors *Thermochim. Acta* **174** (1991) 153
- KASHIRSKAYA, L. M., RYABOVA, L. I., TANANAEVA, O. I., SHIROKOVA, N. A. (LF Vereshchagin High Pressure Phys. Inst., Troitsk USSR) Temperature and pressure dependences of galvanomagnetic properties of $PbTe(Cr)$ solid solutions *Soviet Phys. - Semicond.* **24** (1990) 848
- KAWAI, M. (Tokyo Inst. Technol., Grad. Sch. Nagatsuta, Engn. Mat. Res. Lab, 4259 Nagatsuta, Midori Ku, Yokohama, Kanagawa 227 Japan) Epitaxially grown cuprate superconductor films and further attempts at their design *Thermochim. Acta* **174** (1991) 269
- KIESSLING, F. M., GILLE, P. (Humboldt Univ., Sekt. Phys., Bereichkristallogr., Invalidenstr. 110, DDR-1040 Berlin Ger. Dem. Rep.) Temperature measurement in a THM solution zone for the growth of $Hg_{1-x}Te$ Cryst. Res. Tech. **25** (1990) 1359
- KLOMENKO, A. G., FEDOROV, V. Y. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk 630090 USSR) Intercalation of halogens into the lattice of $YBa_2Cu_3O_{7-x}$ phases and substitution of halogens for oxygen atoms *Thermochim. Acta* **174** (1991) 71
- KOLESKE, D. D., SIBENER, S. J. (Univ. Chicago, Dept. Chem., Chicago IL 60637 USA) Temperature dependence of phonons on stepped surfaces studied with molecular dynamics *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 363
- KOMATSU, T., MATUSITA, K. (Nagaoka Univ. Technol., Dept. Chem., Nagaoka 94021 Japan) High-Tc superconducting glass-ceramics *Thermochim. Acta* **174** (1991) 131
- KOPILEVICH, V. A., SHCHEGROV, L. N., VOITENKO, L. V. (Ukrainian Agr. Acad., Kiev Ukraine USSR) Thermolysis of hydrated copper(II) aminophosphate *Zh. Neorg. Khim. SSSR* **35** (1990) 3114
- KOSTIKOV, V. V., TARASOVA, N. P., CHISTYAKOV, V. N. (DI Mendeleev Chem. Technol. Inst., Chair Ind. Ecol., Moscow USSR) Thermolysis of di-tert-butyl peroxide in isobutyric acid *Izv. Vyssh. Uch. Zav. Khim.* **33** (1990) 111
- KRAICHINSKII, A. N., OSTASHKO, N. I., ROGUTSKII, I. S. (Acad. Sci. UKSSR, Inst. Phys., Kiev Ukraine USSR) Temperature dependence of the efficiency of formation of radiation defects in silicon and germanium *Soviet Phys. Semicond.* **24** (1990) 931
- KUDRYAVTSEVA, L., KIRSS, H., KURANOV, G. (Acad. Sci. ESSR, Inst. Chem., Akad. Tee 15, Tallinn 200108 Estonia USSR) Thermodynamics of mixtures containing unsaturated hydrocarbons by quasichemical group contributions *J. Solut. Chem.* **20** (1991) 165
- LANJEWAR, R. B., GARG, A. N. (Nagpur Univ., Dept. Chem., Nagpur 440010 Maharashtra India) Mossbauer, infrared and thermal decomposition studies of iron (III) complexes with substituted malonic acids *Indian J. Chem. Sect. A* **30** (1991) 166
- LAZAREV, V. B., GAVRICHEV, K. S., GORBUNOV, V. E., GREENBERG, J. H., SLUTSKII, P. Z., NADTOCHII, J. G., SHAPLYGIN, I. S. (Kurnakov Gen. Inorgan. Chem. Inst., Leninskii Pr. 31, Moscow USSR) Thermodynamics of high-Tc super-

- conductors *Thermochim. Acta* **174** (1991) 27
- LEBEDEV, B. V., KULAGINA, T. G. (NI Lobachevskii State Univ., Inst. Chem., Gorki USSR) Thermodynamics of the complex $(C_2H_5)_2Zn.Te(C_2H_5)_2$ in the temperature range from O-K to 300 K *J. Chem. Thermodyn.* **23** (1991) 1
- LIN, R. S., FROHBERG, M. G. (Tech. Univ. Berlin, Inst. Met. Allgemeine Met., Joachimstaler str. 31-32, D-1000 Berlin 15, Fed. Rep. Ger.) Enthalpy measurements on solid and liquid vanadium by levitation calorimetry *Z. Metallk.* **82** (1991) 48
- LOVINGER, A. J., CAVIS, D. D., LOTZ, B. (ATT Bell Labs, Murray Hill NJ 07974 USA) Temperature dependence of structure and morphology of syndiotactic polypropylene and epitaxial relationships with isotactic polypropylene *Macromolecules* **24** (1991) 552
- MALHOTRA, R., WOOLF, L. A. (Australian Natl. Univ., Res. Sch. Phys. Sci., Atom Molec. Phys. Labs, Canberra, Act 2601 Australia) Volume ratios $[V(p)/V(0.1 \text{ MPa})]$ for normal heptane at temperatures from 278 K to 338 K for pressures up to 400 MPa *J. Chem. Thermodyn.* **23** (1991) 49
- MARCHIONNI, G., AJROLDI, G., RIGHETTI, M. C., PEZZIN, G. (Montefluos Spa, Via S Pietro 50, I-20021 Bollate Italy) Perfluoropolyethers. Critical molecular weight and molecular weight dependence of glass transition temperature *Polym. Commun.* **32** (1991) 71
- MEIJER, E. J., FRENKEL, D. (FOM, Inst. Atom. Molec. Phys., Kruislaan 407, 1098 SJ Amsterdam Netherlands) Melting line of yukawa system by computer simulation *BJ. Chem. Phys.* **94** (1991) 2269
- MICHENAUD, J. P., GILLOT, C., KUVIGNEAUD, H., GILBERT, M. (Catholic Univ. Louvain, Unite Physicochim. Phys. Mat., PL Croix Sud 1, B-1348 Louvain Belgium) Anomalous thermopower in Nb doped $BaTiO_3$ ceramics *Solid State Commun.* **77** (1991) 347
- MOLOCHNIKOV, L. S., DEMIDOVA, L. V., SULTANOV, Y. M., GAIBLI, R. A., ORUDZHEV, D. D., AMANOV, E. B., EFENDIEV, A. A.) Acad. Sci. AZSSR, Inst. Theoret. Problems Chem. Technol., Baku Azerbaizhan USSR) Thermochemical properties of polyvinylpyridine complex-forming sorbents for metals sorption *Vysokomol. Soedin. Ser. B SSSR* **32** (1990) 945
- MONTANDO, G., PUGLISI, C., RAPISARDI, R., SAMPERI, F. (Univ. Catania, Dip. Sci. Chim., Viale A Doria 6, I-95125 Catania Italy) Further studies on the thermal decomposition processes in polycarbonates *Polym. Degrad. Stabil.* **31** (1991) 229
- MONTANDO, G., PUGLISI, C., SAMPERI, F. (Univ. Catania, Dip. Sci. Chim., Viale Andrea Doria 6, I-95125 Catania Italy) Chemical reactions which occur in the thermal treatment of polycarbonate polyethyleneterephthalate blends, investigated by direct pyrolysis mass spectrometry *Polym. Degrad. Stabil.* **31** (1991) 291
- MORIYOSHI, T., TSUBOTA, T., HAMAGUCHI, K. (Univ. Tokushima, Fac. Engn., Dept. Chem. Sci. Technol., Tokushima 770 Japan) Compression and densities of (water + a C1 to C4 normal-alkylamine) at the temperature 298.15 K *J. Chem. Thermodyn.* **23** (1991) 155
- MORIYOSHI, T., UOSAKI, Y., TAKAHASHI, K., YAMAKAWA, T. (Univ. Tokushima, Fac. Engn., Dept. Chem. Sci. Technol., Tokushima 770 Japan) (Liquid + liquid) equilibria of (water + ethanol + cyclohexane) at the temperatures 298.15 K and 323.15 K *J. Chem. Thermodyn.* **23** (1991) 37
- MOTAKEF, S. (MIT, Dept. Mech. Engn., Cambridge MA 02139 USA) A high temperature creep model for FaAs *J. Cryst. Growth* **108** (1991) 33
- MRACHKOV, J., LEYAROVSKI, E. (Georgi Nadjakov Inst. Solid State Phys., Lenin Blvd. 72, BU-1784 Sofia Bulgaria) Heat capacity of the hexagonal praseodimium compound $PrNi_5$ in high magnetic fields *Z. Phys. B* **82** (1991) 233

- NARAYANA, M. V., SOMALIAH, K., BRIXNER, L. H. (Osmania Univ., Dept. Phys., Hyderabad 500007 Andhra Pradesh India) Thermally stimulated luminescence of gadolinium-activated NaMgF_3 at 77 K *Cryst. Res. Techn.* **25** (1990) K209
- NEFEDOV, O. M. (ND Zelinskii Organ. Chem. Inst., Moscow USSR) Generation, low-temperature stabilization, structure and reactivity of intermediates with low-coordinated carbon, silicon and germanium atoms *Pure Appl. Chem.* **63** (1991) 231
- NITSCHKE, R., MEY, S., HACK, K., SPENCER, P. (Rhein Westfal Th. Aachen, Lehrstuhl Theoret. Huttenkunde Met. Kernbrennstoffe, D-5100 Aachen Fed. Rep. Ger.) A thermodynamic evaluation of the copper-antimony system *Z. Metall. K.* **82** (1991) 67
- OBRYAN, H. M. (ATT Bell Labs, Murray Hill NJ 07974 USA) Sintering and expansion of HTSC ceramics *Thermochim. Acta* **174** (1991) 223
- OLOFSSON, G., WADSO, I., EBERSON, L. (Univ. Lund, Ctr. Chem., POB 124, S-22101 Lund Sweden) Design and testing of a calorimeter for measurements on electrochemical reactions with gas evolution *J. Chem. thermodyn.* **23** (1991) 95
- OTU, E. O., WESTLAND, A. D. (Univ. Ottawa, Dept. Chem., Ottawa, Ontario Canada K1N 9B4) The thermodynamics of extraction of some lanthanide and other ions by dinonylnaphthalenesulphonic acid *Solvent Extr. Ion Exch.* **8** (1990) 827
- OZAWA, T. (Daicel Chem. Ind. Ltd., Tsukuba Res. Ctr., Tsukuba, Ibaraki 305 Japan) Volatility of metal β -diketonates for chemical vapour deposition of oxide superconductors *Thermochim. Acta* **174** (1991) 185
- PADMA, D. K., KALBANDKERI, R. G., SURESH, B. S., BHAT, V. S. (Indian Inst. Sci., Dept. Inorgan. Phys. Chem., Bangalore 560012 Karnataka India) Low temperature fluorination of some non-metals and non-metal compounds with fluorine *Indian J. Chem. Sect. A* **30** (1991) 172
- PANAYIOTOU, C. G. (Univ. Thessaloniki, Dept. Chem. Engn., GR-54006 Salonika Greece) Thermodynamics of mixtures of amines with n-alkanes and 1-alkanols *J. Solut. Chem.* **20** (1991) 97
- PEKA, G. P., ROSSOKHATYI, V. K., SMOLYAR, A. N. (TG Shevchenko State Univ., Kiev Ukraine USSR) Temperature dependences of the switching parameters of variable-gap S-type diodes *Soviet. Phys. Semicond.* **24** (1990) 935
- PIEPERBECK, N., KLEINRAHM, R., WAGRER, W., JAESCHKE, M. (Ruhr Univ. Bochum, Inst. Thermo Fluiddyn., D-4630 Bochum Fed. Rep. Ger.) Results of (pressure, density, temperature) measurements on methane and on nitrogen in the temperature range from 273.15 K to 323.15 K at pressures up to 12 MPa using a new apparatus for accurate gas-density measurements *J. Chem. Thermodyn.* **23** (1991) 175
- PRIETO, H., IBABE, J. M. R., URCOLA, J. J. (Univ. Valle, Cali Colombia) Influence of hot working substructures on the room temperature mechanical properties in a commercial aluminium and aluminium -1-per-cent magnesium alloy *Z. Metall. K.* **82** (1991) 12
- QUAEYHAEGENS, F. J., DESSEYN, H. O., PERLEPES, S. P., PLAKATOURAS, J. C., BRACKE, B., LENSTRA, A. T. H. (Antwerp State Univ. Ctr., Anorgan. Scheikunde Lab, Groenenborgerlaan 171, B-2020 Antwerp Belgium) Synthesis, spectroscopy and thermal properties of the nickel (II), palladium (II) and copper (II) complexes of bis-aminoalkyl)-oxamides (=LH₂) including the crystal structure of $\text{Cu}_2 \text{L}(\text{NO}_3)_2$ *Transit. Metal Chem.* **16** (1991) 92
- QUADRI, S. K., KHILAR, K. C., KUDCHADKER, A. P., PATNI, M. J. (Indian Inst. Technol., Dept. Chem. Engn., Bombay 400076 India) Measurement of the critical temperatures and critical pressures of some thermally stable or mildly unstable alkanols *J. Chem. Thermodyn.* **23** (1991) 67

- QUADRI, S. K., KUDCHADKER, A. P. (Indian Inst. Technol., Dept. Chem. Engn., Bombay 400076 India) Measurement of the critical temperatures and critical pressures of some thermally stable or mildly unstable esters, ketones, and ethers *J. Chem. Thermodyn.* **23** (1991) 129
- REIMANN, R., HEINTZ, A. (Univ. Heidelberg, Inst. Phys. Chem., Neunteimer Feld 253, D-6900 Heidelberg Fed. Rep. Ger.) Thermodynamic excess properties of alkanol-amine mixtures and application of the ERAS model *J. Solut. Chem.* **20** (1991) 29
- RELLER, A., CASAGRANDE, S. (Univ. Zurich, Inst. Inorgan. Chem., Winterthurerstr. 190, CH-8057 Zurich Switzerland) Structural properties and thermochemical reactivity of superconducting mixed copper oxide phases *Thermochim. Acta* **174** (1991) 9
- ROBINSON, N., EGLINTON, G., LAFFERTY, C. J., SNAPE, C. E. (Univ. Bristol, Sch. Chem., Organ. Chem. Technol. Unit, Cantocks Close, Bristol BS8 1TS Avon England) Comparison of alkanes released from a bituminous coal via hydrolysis and low temperature hydrogenation *Fuel* **70** (1991) 249
- RUHMAN, S., NELSON, K. A. (Hebrew Univ. Jerusalem, Dept. Chem., Jerusalem Israel) Temperature-dependent molecular dynamics of liquid carbon disulphide. Polarization-selected impulsive stimulated light-scattering data and Kubo line shape analysis *J. Chem. Phys.* **94** (1991) 859
- RUSSO, R. (Cnr, Inst. Ric. Tecnol. Dolimer Red., Via oiano 6, I-80072 Arco Felice Italy) Recovery of thermal and mechanical properties after thermal treatment in a polyester-based polyurethane *Colloid Polym. Sci.* **269** (1991) 1
- RYAN, A. J., BERGSTROM, T. B., WILLKOMM, W. R., MACOSKO, C. W. (Univ. Manchester, Inst. Sci. Technol., Manchester Mat. Sci., Ctr., POB 88, Manchester M60 1QD Lancs England) Thermal, mechanical, and fracture properties of copolyureas formed by reaction injection molding. Effects of hard segment structure *J. Appl. Polym. Sci.* **42** (1991) 1023
- RYSKALIEVA, A. K., ABRAMOVA, G. V., NURAKHMETOV, N. N., ERKASOV, R. S. (SM Kirov State Univ., Chair Inorgan. Chem., Alma Ata, Kazahstan USSR) Enthalpy of combustion and formation of α -phenylacetamide and isovaleramide *Izv. Vyssh. Uch. Zav. Khim.* **33** (1990) 17
- SAKAMOTO, Y., MIYAGAWA, U., HAMAMOTO, E., CHEN, F. L., FLANAGAN, T. B., MCNICHOLL, R. A. (Nagasaki Univ., Dept. Mat. Sci. Engn., Nagasaki 852 Japan) Thermodynamic studies of the absorption of hydrogen by Pd-Ti(Zr) solid solution alloys *Ber. Bunsen Ges. Phys. Chem.* **94** (1990) 1457
- SCHEEL, H. J., LICCI, F. (Swiss Fed. Inst. Technol., Dept. Phys., Inst. Microelectr. Optoelectr., CH-1015 Lausanne Switzerland) Phase diagrams and crystal growth of oxide superconductors *Thermochim. Acta* **174** (1991) 115
- SCHULTZ, R. H., ARMENTROUT, P. B. (Univ. Utah, Dept. Chem., Salt Lake City, UT 84112 USA) The gas-phase thermochemistry of FeH *J. Chem. Phys.* **94** (1991) 2262
- SCHWETLICK, K., PIONTECK, J., WINKLER, A., HAHNER, U., KROSCWITZ, H., HABICHER, W. D. (Tech. Univ. Dresden, Sekt. Chem., DDR-8027 Dresden Ger. Dem. Rep.) Organophosphorus antioxidants. 10. Mechanism of antioxidant action of aryl phosphites and phosphonites at higher temperatures *Polym. Degrad. Stabil.* **31** (1991) 219
- SCRANTON, A. B., KLIER, J., PEPPAS, N. A. (Michigan State Univ., Dept. Chem. Engn., E Lansing MI 48824 USA) Complexation thermodynamics of free and graft oligomers with complementary polymers *J. Polym. Sci. B* **29** (1991) 211
- ŠESTAK, J., KAMARAD, J., HOLBA, P., TTRISKA, A., POLLERT, E., NEVRIVA, M. (Czechoslovak Acad. Sci., Inst. Phys., CS-18040 Prague 8, Czechoslovakia)

- Charge distribution, pressure and composition effects of Cu_xO based superconductors *Thermochim. Acta* **174** (1991) 99
- SHAREEFUDDIN, M., RAO, K. V. S., RAO, U. V. S., REDDY, K. N., CHARY, M. N. (Osmania Univ., Dept. Phys., Hyderabad 500007 India) Thermoelectric power studies of polycrystalline KYF4 samples *Cryst. Res. Tech.* **25** (1990) K283
- SHARMA, S. C., KUMAR, P., SYNGAL, M. (Punjab Univ., Dept. Chem., Changegarh 160014 India) Excess enthalpies of (di-normal-butyl ether + cyclohexane or benzene or toluene or ethyl benzene or meta-xylene or para-xylene or mesitylene) *J. Chem. Thermodyn.* **23** (1991) 43
- SHARONOV, K. G., MISHENTSEVA, Y. B., ROZHNOV, A. M., MIROSHNICHENKO, E. A., KORCHATOVA, L. I. (Kuibyshev Polytech. Inst., Dept. Chem. Technol., Kuibyshev 443010 USSR) Molar enthalpies of formation and vaporization of tert-butoxybutanes and thermodynamics of their synthesis from a butanol and 2-methylpropene. 1. Equilibria of synthesis reactions of tert-butoxybutanes in the liquid phase *J. Chem. Thermodyn.* **23** (1991) 141
- SHATALOV, V. V., PARSHIN, A. P., LAZARENKO, V. V., PAVLIK, V. V., KAPLENKOV, V. N. (All Union Chem. Technol. Res. Inst., Moscow USSR) Study of the thermolysis of ammonium perchlorate *Zh. Neorg. Khim. SSR* **35** (1990) 3053
- SHCHEGROV, L. N., KOPILEVICH, V. A., VOITENKO, L. V. (Ukrainian Agr. Acad., Kiev Ukraine USSR) Thermolysis of copper (II) hydrated aminophosphate in quasi-isothermal heating regime *Zh. Neorg. Khim. SSSR* **35** (1990) 3153
- SHILLER, P., ANDERSON, A. B. (Case Western Reserve Univ., Dept. Chem., Cleveland OH 44106 USA) Thermal generation of $\text{CH}_3(\text{g})$ from CH_3OH adsorbed on oxygen-covered $\text{Mo}(110)\text{-C-O}$ bond strength considerations from molecular orbital theory *J. Phys. Chem.* **95** (1991) 1396
- SHURDUMOV, B. K., SHURDUMOV, G. K., TEMIRKANOVA, L. K. (Kabardino Balkar State Univ., Nalchik USSR) Thermal analysis of a triple mutual system from lithium and sodium tungstenates and metaphosphates *Zh. Neorg. Khim. SSSR* **35** (1990) 3160
- SIDOROV, L. N. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Ion-molecular equilibria in high-temperature systems and determination of electron affinities *High Temp. Sci.* **29** (1990) 153
- SINGLER, R. E., WILLINGHAM, R. A., NOEL, C., FRIEDRICH, C., BOSIO, L., ATKINS, E. (USA, Mat. Technol. Lab, Polym. Res. Branch, Watertown MA 02172 USA) Thermotropic liquid crystalline poly(organophosphazene) *Macromolecules* **24** (1991) 510
- SLEIGHT, A. W. (Oregon State Univ., Dept. Chem., Gilbert 153, Corvallis OR 97331 USA) Oxide superconductors *Thermochim. Acta* **174** (1991) 1
- SMITH, D. H., COVATCH, G. C., LIM, K. H. (US DoE, Morgantown Energy Technol. Ctr., Morgantown WV 26507 USA) Temperature dependence of emulsion morphologies and the dispersion morphology diagram *J. Phys. Chem.* **95** (1991) 1463
- SOLOVEV, M. Y., BASAEV, A. R., PRIVALOV, A. N., KOROLEV, G. V., MAKHONINA, L. I., BUDANOV, N. A., SHAPIRO, Y. Y. (Yaroslavl Polytech. Inst., Yaroslavl USSR) Thermodynamic parameters of physical lattice sites of crosslinked acrylic copolymers *Vysokomol. Soedin. Ser. B SSSR* **32** (1990) 938
- STOLEN, S., GRONVOLD, F., WESTRUUM, E. F., KOLONIN, G. R. (Univ. Oslo, Dept. Chem., N-0315 Oslo 3 Norway) Heat capacity and thermodynamic properties of synthetic heazlewoodite, Ni_3S_2 , and of the high-temperature phase $\text{Ni}_3\text{S}_2\text{-S}_2$ *J. Chem. Thermodyn.* **23** (1991) 77
- STONER, C., RHEINGOLD, A. L., BRILL, T. B. (Delaware, Dept. Chem., Newark DE 19716 USA) Thermal decomposition of energetic materials. 48. Structures and decomposition mechanism of copper (II)

- complexes of furazans (1, 2, 5-oxadiazoles) *Inorg. Chem.* **30** (1991) 360
- STRNAD, Z., SESTAK, J. (Glass Res. Inst. Glass Works Sklounion Teplice, Primatorska 51, CS-18000 Prague 8 Czechoslovakia) On continuous oxide superconductor wire preparation by melt fast solidification and glass formation *Thermochim. Acta* **174** (1991) 253
- SUWARDIE, H., KALYON, D. M., KOVENKLIOLU, S. (Stevens Inst. Technol. Lib., Highly Filled Mat. Inst., Hoboken NJ 07030 USA) Thermal behavior and curing kinetics of poly(carbosilane) *J. Appl. Polym. Sci.* **42** (1991) 1087
- TIAN, Y. L., MICHELBERGER, T., FRANCK, E. U. (Univ. Karlsruhe, Inst. Phys. Chem. Electrochem., Kaiserstr. 12, D-7500 Karlsruhe Fed. Rep. Ger.) High-pressure phase equilibria and critical curves of (water + normalbutane) and (water + normal-hexane) at temperatures to 700 K and pressures to 300 MPa *J. Chem. Thermodyn.* **23** (1991) 105
- TOMESCU, M., SEGAL, E., CRETU, S. (Inst. Polytech. Gh. Gheorghiu Dej, Chair Phys. Chem. Electrochem. Technol., Bucharest Romania) Thermal behaviour of acrylamide-maleic anhydride - Styrene terpolymer *Rev. Roum. Chim.* **35** (1990) 649
- TRAYANOV, A. L., PRISANT, M. G. (Duke Univ., Dept. Chem., Durham NC 27706 USA) Temperature dependence of chlorine adsorption on argon surfaces in the zero coverage limit - A molecular dynamics study *J. Chem. Phys.* **94** (1991) 2352
- TSUZUKI, T. (Tohoku Univ., Fac. Sci., Dept. Phys., Sendai Miyagi 980 Japan) A method of finding thermal average by differential operation *Solid State Commun.* **77** (1991) 345
- UCHIDA, T., WAKIHARA, M. (Tokyo Inst. Technol., Dept. Chem. Engr., Meguro, Ku Tokyo 152 Japan) Thermal behavior of the Chevrel phase sulfides *Thermochim. Acta* **174** (1991) 201
- VANHUAN, L., TUONG, L. T. C. (Acad. Sci. Vietnam, Inst. Phys., Ceram. Mat. Lab, Nghia Do Tuliem, Hanoi Vietnam) The thermodynamic equilibrium of the formation process of high-Tc superconducting phase $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ *Cryst. Res. Tech.* **25** (1990) 1117
- VETTEGREN, V. I., BRONNIKOV, S. V., KORZHOWIN, L. N., FRENKEL, S. Y. (Acad. Sci. USSR, Inst. Macromolec. Cpds., Leningrad 199004 USSR) New approach to the description of Young's modulus for highly oriented polymers. 1. Temperature-time dependences of Young modulus *J. Macromol. Sci.* **B29** (1990) 285
- WANG, J. Q., FENG, D. M., WU, W. H., ZENG, M. X., LI, Y. (Beijing Inst. Technol., Dept. Chem. Engr., Beijing Peoples R China) An investigation of the flame retardation mechanism of polypropylene containing a chlorine flame retardant system by XPS (ESCA) *Polym. Degrad. Stabil.* **31** (1991) 129
- XIE, X. M., TANIOKA, A., MIYASAKA, K. (Tokyo Inst. Technol., Dept. Organ. Polym. Mat., Meguro Ku, Tokyo 152 Japan) Thermoreversible gelation mechanism of polystyrene carbon disulphide solutions *Polymer* **32** (1991) 479
- YAMAMOTO, T., TASUMI, M. (MIT, Dept. Mat. Sci. Engr., Cambridge MA 02139 USA) FT-IR studies on thermal denaturation processes of ribonucleases. A and ribonucleases-S in H_2O and D_2O solutions *J. Mol. Struct.* **242** (1991) 235
- YOSHINOBU, J., SEKITANI, T., ONCHI, M., NISHIJAMA, M. (Univ. Pittsburgh, Ctr. Surface Sci., Dept. Chem., Pittsburgh PA. 15260 USA) Chemisorption and thermal decomposition of acetylene and ethylene on Pd(110)-HREELS, TDS and LEED studies *J. Electron Spectrosc. Relat. Ph.* **54** (1990) 697
- JASSIN, A. A., SABAA, M. W., ABDEL-NABY, A. S. (Univ. Cairo, Fac. Sci., Dept. Chem., Giza Egypt) Cyanoguanidine and its complexes as thermal stabilizers for rigid

- poly(vinyl chloride) *Polym. Degrad. Stabil.* **31** (1991) 189
- ZAITSEV, A. I., KOROLYOV, N. V., MOGUTNOV, B. M. (IP Bardin Cent. Ferrous Met. Res. Inst., Thermodyn. Invest. Lab, 9-23 2nd Bauman st., Moscow 107005 USSR) Thermodynamic properties of $[x\text{Ca} + (1-x)\text{P}]$ *J. Chem. Thermodyn.* **23** (1991) 11
- ZHAN, S. G., YANG, M. L., DENG, Y., DAI, H. Q., AN, M. H. (Sichuan Univ., Dept. Chem., Chengdu Peoples R China) Studies on adiabatic thermokinetics. 3. Thermokinetic research of 2nd-order reactions *Acta Chim. Sin.* **48** (1990) 1153
- ZHONG, X. G., SUN, J. Z., ZHANG, Y. F., WANG, F. S. (Chinese Acad. Sci., Changchun Inst. Appl. Chem., Changchun 130022 Peoples R China) Studies on radiation effects of PTFE. 2. Radiation-induced structural changes and the temperature effect *J. Macromol. Sci.* **B29** (1990) 369
- ZIELKIEWICZ, J., KONITZ, A. (Gdansk Tech. Univ., Inst. Inorgan. Chem. Technol. Corros., Majakowskiego 11-12, PL-80952 Gdansk Poland) (Vapour + liquid) equilibria of (N, N-dimethylformamide + water + propan-1-ol) at the temperature 313.15 K *J. Chem. Thermodyn.* **23** (1991) 59